

We claim:

1. A method of reading from data on an optical disc having two sides comprising:

providing a disc with data disposed on tracks on respective sides, said tracks being disposed along spirals, with the track on one side being disposed along a first spiral oriented in a first direction and the track on the other side being disposed along a second spiral oriented in a direction that is opposite to said first direction, as viewed normally from the respective sides;

rotating the disc; and

reading the data from either side without stopping the rotation of the disc.

2. The method of claim 1 wherein said disc is provided with at least two data layer on one side further comprising reading the layers of said one side without switching over to the other side between layers.

3. The method of claim 1 further comprising reading the data from both sides of the disc while the disc continues rotating in the same direction.

4. The method of claim 1 further comprising reading data from a first side and then reading data from the second side.

5. The method of claim 1 further comprising:

providing two laser heads, each laser head being disposed on along a respective side of the disc; and

reading data from one side with one head and from the other side with the other head.

6. The method of claim 5 wherein data is read in sequence from said first side and said second side.

7. The method of claim 6 further comprising reading in a sequence on said tracks, the sequence starting on one side and ending on the opposite side.

8. The method of claim 1 further comprising reading data with a single head.

9. The method of claim 8 further comprising switching said head from one side to the other without stopping the disc.

10. A method of playing a double-sided optical disc, comprising:
reading data from a first side; and
reading data from the second side without turning said disc over.

11. The method of claim 10 further comprising:

rotating the disc in a first direction to read data from a first side; and
rotating the disc in a second direction to read data from a second side.

12. The method of claim 10 further comprising:

reading data from a first side with a first laser head; and
reading data from a second side with a second laser head.

13. The method of claim 12 further comprising rotating said disc in a first direction while said data is read from said first side and rotating said disc in said first direction while said data is read from said second side.

14. The method of claim 10 further comprising:

reading data from a first side with a laser head;
switching said laser head to a second side; and
reading data from said second side with said laser head.

15. The method of claim 14 further comprising rotating the disc in a single direction while the laser head is switched.

16. The method of claim 14 wherein said disc is rotated continuously in a single direction while data is read from said first side and said second side and as said

laser head is switched.

17. A method of reading data from a disc having a first side with several data layers, and a second side with at least one data layer comprising:

reading data from the data layers of said first side; and

reading data from said second side without turning said disc over.

18. The method of claim 17 wherein data is read from said first side while said disc is rotating in one direction and data is read on said second side while said disc is rotating in an opposite direction.

19. The method of claim 17 further comprising rotating said disc in a predetermined direction as data is read from said first and said second sides.

20. The method of claim 17 further comprising reading data from said first side with a first laser head and reading data from said second side with a second laser head.

21. The method of claim 17 further comprising reading data from said first side with a first laser, switching said laser to said second side and reading data from said second side with said first laser.